

【CLAIMS】

【Claim 1】

A dishwasher comprising:

a control panel;

a front panel disposed at a front of the control panel;

a front display unit slidably coupled to at least one of the control panel and the front panel and disposed between the control panel and the front panel; and

a sliding latch and a latch mounting slot for slidably coupling the front display unit.

【Claim 2】

The dishwasher according to claim 1, wherein the sliding latch and the latch mounting slot are formed in at least one pair or more.

【Claim 3】

The dishwasher according to claim 2, wherein the sliding latch and the latch mounting slot are respectively formed opposite to one another.

【Claim 4】

The dishwasher according to claim 1, wherein the sliding latch is formed on the front display unit.

【Claim 5】

The dishwasher according to claim 4, wherein the sliding latch is formed on at least one of the control panel and the front panel.

【Claim 6】

The dishwasher according to claim 1, wherein the sliding latch includes an extended portion extending a predetermined distance and a bent portion bending from the extended portion.

【Claim 7】

The dishwasher according to claim 1, wherein the latch mounting slot includes an inserting slot having a predetermined width and a securing slot having another predetermined width less than the width of the inserting slot.

【Claim 8】

The dishwasher according to claim 7, wherein an edge of a securing slot forming portion forming the securing slot is chamfered or rounded.

【Claim 9】

The dishwasher according to claim 1, further comprising a positioning tab and a tab receptacle for positioning the front display unit after the front display unit has completed sliding.

【Claim 10】

The dishwasher according to claim 9, wherein the positioning tab is formed on the front display unit, and the tab receptacle is formed on at least one of the control panel and the front panel.

【Claim 11】

The dishwasher according to claim 9, wherein the positioning tab and the tab receptacle are positioned to couple when the front display unit has completed sliding.

【Claim 12】

The dishwasher according to claim 1, wherein the front panel includes a display window formed thereon for allowing information displayed by the front display unit to be viewed from the outside.

【Claim 13】

A dishwasher comprising:

a control panel;

a front panel disposed at a front of the control panel; and

a front display unit slidably mounted to at least one of the control panel and the front panel to be disposed between the control panel and the front panel.

【Claim 14】

The dishwasher according to claim 13, further comprising a sliding latch and a latch mounting slot for sliding the front display unit.

【Claim 15】

The dishwasher according to claim 13, further comprising a positioning tab and a tab receptacle for positioning the front display unit after the front display unit has completed sliding.

【Claim 16】

A manufacturing method of a dishwasher, comprising:

preparing a control panel, a front panel, and a front display unit;

forming a sliding latch and a latch mounting slot for sliding the front display unit; and

coupling the front display unit to at least one of the control panel and the front panel by sliding the sliding latch in the latch mounting receptacle.

【Claim 17】

The manufacturing method according to claim 16, wherein the forming of the sliding latch includes forming an extended portion and a bent portion bent from the extended portion, and the forming of the latch mounting slot includes forming an inserting slot having a predetermined width and a securing slot having another predetermined width less than the width of the inserting slot.

【Claim 18】

The manufacturing method according to claim 17, wherein the coupling of the front display unit includes:

inserting the sliding latch in the latch mounting slot; and

sliding the sliding latch for securing the sliding latch in the securing slot.

【Claim 19】

The manufacturing method according to claim 16, wherein the preparing of the control panel, the front panel, and the front display unit includes forming a positioning tab and a tab receptacle.

【Claim 20】

The manufacturing method according to claim 19, wherein the coupling of the front display unit includes positioning the front display unit by coupling the positioning tab to the tab receptacle.